

IN THE CLAIMS:

All pending claims and their present status are produced below.

1-27. (Canceled)

28. (Withdrawn) A method for printing time-based media content processed by a multimedia server embedded in a printer comprising the steps of:

monitoring streaming media content from a time-based media source input to the printer;

selecting a portion of the streaming media content based on a plurality of user defined criteria;

indexing the selected portion of the streaming media content;

constructing a storable representation for the selected portion of the streaming media content; and

generating a printout of the storable representation.

29. (Withdrawn) The method of claim 28, wherein the streaming media content from the time-based media source comprises multi-channel streaming media content.

30. (Withdrawn) The method of claim 28, wherein:

monitoring the streaming media content from the time-based media source input to the printer comprises monitoring video signals via a video camera interface;

the video signals capture motions of one or more persons located near the printer; and

the printout of the storable representation corresponds to the captured motions, and is generated on a video paper.

31. (Withdrawn) The method of claim 28, wherein:
- monitoring the streaming media content from the time-based media source input to the printer comprises monitoring audio data via an audio capture interface;
- wherein the audio data captures audio sounds recorded around the printer; and
- the printout of the storable representation corresponds to the captured audio data, and is generated on an audio paper.
32. (Withdrawn) The method of claim 28, further comprising automatically segmenting the streaming media content into a plurality of media clips based on an event in an audio channel associated with the streaming media.
33. (Withdrawn) The method of claim 28, wherein generating the printout of the storable representation comprises producing a removable storage medium comprising digital data corresponding to the storable representation, and further comprises generating a bar code adapted to identify the selected portion of the streaming media content in the removable storage medium.
34. (Withdrawn) The method of claim 28, wherein the step of generating the printout of the storable representation comprises generating an audio form of the document by an embedded text-to-speech application.
35. (Withdrawn) A method for printing time-based media content processed by a multimedia server embedded in a printer comprising the steps of:
- monitoring streaming media content from a time-based media source input to the printer;

receiving user input to the printer indicating a participant speaker of a recorded video meeting;

performing multimedia content recognition on the streaming media content to determine one or more speakers in the recorded video meeting;

segmenting the streaming media content into a plurality of media clips based on which of the one or more speakers is speaking in the recorded video meeting;

indexing the plurality of media clips by the one or more speakers in the recorded video meeting;

selecting a media clip from the plurality of media clips illustrating a time period when the participant speaker is the one or more speakers speaking in the recorded video meeting;

constructing a storable representation for the selected media clip; and

generating a printout of the storable representation.

36. (Withdrawn) The method of claim 35, wherein performing multimedia content recognition comprises applying a speech recognition method to determine an identify of the one or more speakers in the recorded video meeting.

37. (Withdrawn) The method of claim 35, wherein performing multimedia content recognition comprises applying a face recognition method to identify a visual appearance of the one or more speakers in the recorded video meeting.

38. (Withdrawn) The method of claim 35, wherein performing multimedia content recognition comprises applying a voice matching method to identify a voice of the one or more speakers in the recorded video meeting.

39. (Withdrawn) The method of claim 35, wherein
- the user input indicates a location of the participant speaker;
- segmenting the streaming media content into the plurality of media clips is based on
- locations associated with the one or more speakers in the recorded video meeting; and
- selecting the media clip from the plurality of media clips comprises selecting the
- media clip illustrating a time period when the location associated with the one
- or more speakers in the recorded video meeting is the location of the
- participant speaker.
40. (Withdrawn) The method of claim 39, wherein performing multimedia content recognition comprises applying a sound localization method to determine the locations associated with the one or more speakers in the recorded video meeting.
41. (Withdrawn) A method for capturing referenced multimedia content data by a printer with an embedded multimedia server comprising:
- receiving a document in a print job;
- extracting a Uniform Resource Locator from the document;
- retrieving a content web page identified by the Uniform Resource Locator referenced
- in the document;
- constructing a printable representation of the retrieved content web page;
- associating the printable representation with a thumbnail image; and

displaying the associated thumbnail image in an embedded printer display of the printer.

42. (Withdrawn) The method of claim 41, further comprising:
- responsive to the associated thumbnail image being selected, making the printable representation available for printing to a selected printable medium.
43. (Withdrawn) The method of claim 41, further comprising:
- receiving an indication that the retrieved content web page has become unavailable;
- and
- updating the embedded printer display to remove the thumbnail image associated with the retrieved content web page.
44. (Withdrawn) The method of claim 41, further comprising:
- determining that the document in the print job is removed from an output tray of the printer;
- estimating a number of sheets removed from the output tray based on a change in a weight of sheets in the output holder;
- identifying the removed document based on the estimated number of sheets removed from the output tray; and
- highlighting the thumbnail image associated with the printable representation of the content web page referenced in the removed document.
45. (Withdrawn) The method of claim 41, further comprising:

setting a timeout window for removing the document in the print job from an output tray of the printer;

responsive to the timeout window lapsing, removing the thumbnail image associated with the document from the embedded printer display.

46. (Withdrawn) A printer system for printing time-based media content comprising:

a monitoring module for monitoring streaming media content from a time-based media source input;

an embedded multimedia server for selecting a portion of the streaming media content monitored by the monitoring module based on a plurality of user defined criteria;

a content indexing module communicatively coupled to the embedded multimedia server for indexing the selected portion of the streaming media content;

an output module communicatively coupled to the embedded multimedia server for constructing a storable representation for the selected portion of the streaming media content; and

a print engine communicatively coupled to the output module for generating a printout of the storable representation.

47. (Withdrawn) The system of claim 46, wherein the streaming media content from the time-based media source comprises multi-channel streaming media content.

48. (Withdrawn) The system of claim 46, further comprising a content editing module for automatically segmenting the streaming media content into a plurality of media clips based on an event in an audio channel associated with the streaming media.

49. (Withdrawn) The system of claim 46, wherein the output module produces a removable storage medium comprising digital data corresponding to the storable representation and generates a bar code adapted to identify the selected portion of the streaming media content in the removable storage medium.
50. (Withdrawn) A printer system for printing time-based media content comprising:
- a monitoring module for monitoring streaming media content from a time-based media source input to the printer;
 - a user interface module for receiving user input to the printer indicating a participant speaker of a recorded video meeting;
 - an embedded multimedia server comprising
 - a content recognition module for performing multimedia content recognition on the streaming media content to determine one or more speakers in the recorded video meeting;
 - a content editing module for segmenting the streaming media content into a plurality of media clips based on which of the one or more speakers is speaking in the recorded video meeting; and
 - a content selection module for selecting a media clip from the plurality of media clips illustrating a time period when the participant speaker is the one or more speakers speaking in the recorded video meeting;
 - a content indexing module communicatively coupled to the embedded multimedia server for indexing the plurality of media clips by the one or more speakers in the recorded video meeting;

an output module communicatively coupled to the embedded multimedia server for
constructing a storable representation for the selected media clip; and
a print engine communicatively coupled to the output module for generating a
printout of the storable representation.

51. (Withdrawn) The system of claim 50, wherein the content recognition module
applies a speech recognition method to determine an identity of the one or more speakers in
the recorded video meeting.

52. (Withdrawn) The system of claim 50, wherein the content recognition module
applies a face recognition method to identify a visual appearance of the one or more speakers
in the recorded video meeting.

53. (Withdrawn) The system of claim 50, wherein the content recognition module
applies a voice matching method to identify a voice of the one or more speakers in the
recorded video meeting.

54. (Withdrawn) The system of claim 50, wherein
the user interface module receives a user input indicating a location of the participant
speaker;
the content editing module segments the streaming media content into the plurality of
media clips based on locations associated with the one or more speakers in the
recorded video meeting; and
the content selection module selects the media clip illustrating a time period when the
location associated with the one or more speakers in the recorded video
meeting is the location of the participant speaker.

55. (Withdrawn) The system of claim 54, wherein the content recognition module applies a sound localization method to determine the locations associated with the one or more speakers in the recorded video meeting.
56. (Withdrawn) A printer system for capturing referenced multimedia content data with an embedded multimedia server comprising:
- a network interface for receiving a document in a print job;
 - an embedded multimedia server comprising
 - a content processing module for extracting a Uniform Resource Locator from the document;
 - a web server for retrieving a content web page identified by the Uniform Resource Locator referenced in the document;
 - an output module for constructing a printable representation of the retrieved content web page;
 - an embedded printer display for displaying a thumbnail image associated with the printable representation constructed by the embedded multimedia server; and
 - a print engine for making the printable representation available for printing to a selected printable medium responsive to the thumbnail image being selected in the embedded printer display.
57. (Withdrawn) A computer program product for printing time-based media content processed by a multimedia server embedded in a printer, the computer program product comprising:

a computer-readable storage medium; and

computer program code, coded on the storage medium, comprising:

a monitoring module for monitoring streaming media content from a time-based media source input;

an embedded multimedia server for selecting a portion of the streaming media content monitored by the monitoring module based on a plurality of user defined criteria;

a content indexing module communicatively coupled to the embedded multimedia server for indexing the selected portion of the streaming media content;

an output module communicatively coupled to the embedded multimedia server for constructing a storable representation for the selected portion of the streaming media content; and

a print engine communicatively coupled to the output module for generating a printout of the storable representation.

58. (Withdrawn) A computer program product for printing time-based media content processed by a multimedia server embedded in a printer, the computer program product comprising:

a computer-readable storage medium; and

computer program code, coded on the storage medium, comprising:

a monitoring module for monitoring streaming media content from a time-based media source input to the printer;

a user interface module for receiving user input to the printer indicating a participant speaker of a recorded video meeting;

an embedded multimedia server comprising

a content recognition module for performing multimedia content recognition on the streaming media content to determine one or more speakers in the recorded video meeting;

a content editing module for segmenting the streaming media content into a plurality of media clips based on which of the one or more speakers is speaking in the recorded video meeting; and

a content selection module for selecting a media clip from the plurality of media clips illustrating a time period when the participant speaker is the one or more speakers speaking in the recorded video meeting;

a content indexing module communicatively coupled to the embedded multimedia server for indexing the plurality of media clips by the one or more speakers in the recorded video meeting;

an output module communicatively coupled to the embedded multimedia server for constructing a storable representation for the selected media clip; and

a print engine communicatively coupled to the output module for generating a printout of the storable representation.

59. (Withdrawn) The computer program product of claim 58, wherein
- the user interface module receives a user input indicating a location of the participant speaker;

the content editing module segments the streaming media content into the plurality of media clips based on locations associated with the one or more speakers in the recorded video meeting; and

the content selection module selects the media clip illustrating a time period when the location associated with the one or more speakers in the recorded video meeting is the location of the participant speaker.

60. (Withdrawn) A computer program product for capturing referenced multimedia content data with an embedded multimedia server, the computer program product comprising a computer-readable medium having computer program code embodied therein for:

receiving a document in a print job;

extracting a Uniform Resource Locator from the document;

retrieving a content web page identified by the Uniform Resource Locator referenced in the document;

constructing a printable representation of the retrieved content web page;

associating the printable representation with a thumbnail image; and

displaying the associated thumbnail image in an embedded printer display of the printer; and

responsive to the associated thumbnail image being selected, making the printable representation available for printing to a selected printable medium.

61. (Withdrawn) The computer program product of claim 60, further comprising computer program code for:

determining that the document in the print job is removed from an output tray of the printer;

estimating a number of sheets removed from the output tray based on a change in a weight of sheets in the output holder;

identifying the removed document based on the estimated number of sheets removed from the output tray; and

highlighting the thumbnail image associated with the printable representation of the content web page referenced in the removed document.

62. (Withdrawn) The computer program product of claim 60, further comprising computer program code for:

setting a timeout window for removing the document in the print job from an output tray of the printer;

responsive to the timeout window lapsing, removing the thumbnail image associated with the document from the embedded printer display.

63. (Currently Amended) A printer with an embedded multimedia server for printing time-based media comprising:

a chassis for housing:

a print engine within the printer for generating a printout of a storage representation and controlling printing to a plurality of storage media forms, including removable storage media forms, the print engine being coupled to media holders and an output module;

a monitoring module within the printer for monitoring streaming media content from
a time-based media source input;
the embedded multimedia server within the printer for selecting a portion of the
monitored streaming media content based on a plurality of user defined
criteria and for interfacing with interfaces for multiple types of media content,
the embedded multimedia server being communicatively coupled to the
monitoring module;
a content indexing module within the printer communicatively coupled to the
embedded multimedia server for indexing the selected portion of the
streaming media content; and
the output module within the printer communicatively coupled to the embedded
multimedia server for constructing the storable representation of the selected
portion of the streaming media content.

64. (Previously Presented) The printer of claim 63, further comprising:

a network interface communicatively coupled to the embedded multimedia server for
receiving a document in a print job;
the embedded multimedia server further comprising:
a content processing module for extracting a Uniform Resource Locator from
the document; and
a web server for retrieving a content web page identified by the Uniform
Resource Locator referenced in the document;
the output module constructing a printable web content representation of the retrieved
content web page;

an embedded printer display for a thumbnail image associated with the web content
printable representation constructed by the embedded multimedia server; and
the print engine for making the web content printable representation available for
printing to a selected printable medium responsive to the thumbnail image
being selected in the embedded printer display.

65. (Previously Presented) The printer of claim 63, wherein the print engine further comprises a removable storage medium format writer for electronic storage mediums.

66. (Previously Presented) The printer of claim 65, wherein the medium format writer is a digital video disc (DVD) writer.

67. (Previously Presented) The printer of claim 63, wherein the print engine further comprises a removable storage medium format writer for optical storage mediums.

68. (Previously Presented) The printer of claim 63, wherein at least one of the media holders is a bandolier configured for holding a removable storage medium.

69. (Previously Presented) The printer of claim 63, wherein the streaming media content from the time-based media source comprises multi-channel streaming media content.

70. (Previously Presented) The printer of claim 63, further comprising a content editing module for automatically segmenting the streaming media content into a plurality of media clips based on an event in an audio channel associated with the streaming media.

71. (Previously Presented) The printer of claim 63, wherein the output module produces a removable storage medium comprising digital data corresponding to the storable representation and generates a bar code adapted to identify the selected portion of the streaming media content in the removable storage medium.

72. (Currently Amended) The printer of claim 63, further comprising:

a user interface module for receiving user input to the printer indicating a participant speaker of a recorded video meeting;

the embedded multimedia server ~~further~~ comprising:

a content recognition module for performing multimedia content recognition on the streaming media content to determine one or more speakers in the recorded video meeting;

a content editing module for segmenting the streaming media content into a plurality of media clips based on which of the one or more speakers is speaking in the recorded video meeting; and

a content selection module for selecting a media clip from the plurality of media clips based on the plurality of user defined criteria ~~as the portion of the monitored streaming content~~, the plurality of user defined criteria comprising a time period when the participant speaker is the one or more speakers speaking in the recorded video meeting;

the content indexing module indexing the plurality of media clips by the one or more speakers in the recorded video meeting;

the output module constructing a storable media clip representation for the selected media clip; and

the print engine generating a printout of the storable media clip representation.

73. (Previously Presented) The printer of claim 72, wherein the content recognition module applies a speech recognition method to determine an identity of the one or more speakers in the recorded video meeting.

74. (Previously Presented) The printer of claim 72, wherein the content recognition module applies a face recognition method to identify a visual appearance of the one or more speakers in the recorded video meeting.

75. (Previously Presented) The printer of claim 72, wherein the content recognition module applies a voice matching method to identify a voice of the one or more speakers in the recorded video meeting.

76. (Previously Presented) The printer of claim 72, wherein
the user interface module receives a user input indicating a location of the participant speaker;
the content editing module segments the streaming media content into the plurality of media clips based on locations associated with the one or more speakers in the recorded video meeting; and
the content selection module selects the media clip illustrating a time period when the location associated with the one or more speakers in the recorded video meeting is the location of the participant speaker.

77. (Previously Presented) The printer of claim 72, wherein the content recognition module applies a sound localization method to determine the locations associated with the one or more speakers in the recorded video meeting.

78. (Currently Amended) In a printer with an embedded multimedia server, a method for printing time-based media content comprising:

performing, by the printer, multimedia content processing, comprising:

monitoring streaming media content from a time-based media source input to the printer;

selecting a portion of the streaming media content based on a plurality of user defined criteria;
indexing the selected portion of the streaming media content;
constructing a storable representation for the selected portion of the streaming media content; and
generating using the printer a printout of the storable representation.

79. (Previously Presented) The method of claim 78, wherein the streaming media content from the time-based media source comprises multi-channel streaming media content.

80. (Previously Presented) The method of claim 78, wherein:
monitoring the streaming media content from the time-based media source input to the printer comprises monitoring video signals via a video camera interface;
the video signals capture motions of one or more persons located near the printer; and
the printout of the storable representation corresponds to the captured motions, and is generated on a video paper.

81. (Previously Presented) The method of claim 78, wherein:
monitoring the streaming media content from the time-based media source input to the printer comprises monitoring audio data via an audio capture interface;
wherein the audio data captures audio sounds recorded around the printer; and
the printout of the storable representation corresponds to the captured audio data, and is generated on an audio paper.

82. (Previously Presented) The method of claim 78, further comprising automatically segmenting the streaming media content into a plurality of media clips based on an event in an audio channel associated with the streaming media.

83. (Previously Presented) The method of claim 78, wherein generating the printout of the storable representation comprises producing a removable storage medium comprising digital data corresponding to the storable representation, and further comprises generating a bar code adapted to identify the selected portion of the streaming media content in the removable storage medium.

84. (Previously Presented) The method of claim 78, wherein the step of generating the printout of the storable representation comprises generating an audio form of the document by an embedded text-to-speech application.

85. (Previously Presented) The method of claim 78, further comprising:
receiving user input to the printer indicating a participant speaker of a recorded video meeting;
performing multimedia content recognition on the streaming media content to determine one or more speakers in the recorded video meeting;
segmenting the streaming media content into a plurality of media clips based on which of the one or more speakers is speaking in the recorded video meeting;
indexing the plurality of media clips by the one or more speakers in the recorded video meeting;
wherein selecting the portion of the streaming media comprises selecting a media clip from the plurality of media clips and the plurality of user defined criteria comprise a time period when the participant speaker is the one or more speakers speaking in the recorded video meeting;
constructing a storable media clip representation for the selected media clip; and
generating a printout of the storable media clip representation.

86. (Previously Presented) The method of claim 85, wherein performing multimedia content recognition comprises applying a speech recognition method to determine an identify of the one or more speakers in the recorded video meeting.
87. (Previously Presented) The method of claim 85, wherein performing multimedia content recognition comprises applying a face recognition method to identify a visual appearance of the one or more speakers in the recorded video meeting.
88. (Previously Presented) The method of claim 85, wherein performing multimedia content recognition comprises applying a voice matching method to identify a voice of the one or more speakers in the recorded video meeting.
89. (Previously Presented) The method of claim 85, wherein
the user input indicates a location of the participant speaker;
segmenting the streaming media content into the plurality of media clips is based on
locations associated with the one or more speakers in the recorded video
meeting; and
selecting the media clip from the plurality of media clips comprises selecting the
media clip illustrating a time period when the location associated with the one
or more speakers in the recorded video meeting is the location of the
participant speaker.
90. (Previously Presented) The method of claim 89, wherein performing multimedia content recognition comprises applying a sound localization method to determine the locations associated with the one or more speakers in the recorded video meeting.
91. (Previously Presented) The method of claim 78, further comprising:
receiving a document in a print job;

- extracting a Uniform Resource Locator from the document;
- retrieving a content web page identified by the Uniform Resource Locator referenced
in the document;
- constructing a printable web content representation of the retrieved content web page;
- associating the printable web content representation with a thumbnail image; and
- displaying the associated thumbnail image in an embedded printer display of the
printer.
92. (Previously Presented) The method of claim 91, further comprising:
responsive to the associated thumbnail image being selected, making the printable
web content representation available for printing to a selected printable
medium.
93. (Previously Presented) The method of claim 91, further comprising:
receiving an indication that the retrieved content web page has become unavailable;
and
updating the embedded printer display to remove the thumbnail image associated
with the retrieved content web page.
94. (Previously Presented) The method of claim 91, further comprising:
determining that the document in the print job is removed from an output tray of the
printer;
estimating a number of sheets removed from the output tray based on a change in a
weight of sheets in the output holder;
identifying the removed document based on the estimated number of sheets removed
from the output tray; and

- highlighting the thumbnail image associated with the printable web content
representation of the content web page referenced in the removed document.
95. (Previously Presented) The method of claim 91, further comprising:
setting a timeout window for removing the document in the print job from an output
tray of the printer;
responsive to the timeout window lapsing, removing the thumbnail image associated
with the document from the embedded printer display.
96. (Previously Presented) A computer program product for printing time-based media
content processed by a multimedia server embedded in a printer, the computer program
product comprising:
a computer-readable storage medium; and
computer program code, coded on the storage medium, comprising:
a monitoring module for monitoring streaming media content from a time-
based media source input;
an embedded multimedia server for selecting a portion of the streaming media
content monitored by the monitoring module based on a plurality of
user defined criteria and for interfacing with interfaces for multiple
types of media content, the embedded multimedia server being
communicatively coupled to the monitoring module;
a content indexing module communicatively coupled to the embedded
multimedia server for indexing the selected portion of the streaming
media content;

an output module communicatively coupled to the embedded multimedia server for constructing a storable representation for the selected portion of the streaming media content; and

a print engine for controlling printing to a plurality of storage media forms, including removable storage media forms, the print engine communicatively coupled to the output module for generating a printout of the storable representation.

97. (Currently Amended) The computer program product of claim 96, further comprising:

a user interface module for receiving user input to the printer indicating a participant speaker of a recorded video meeting;

the embedded multimedia server further comprising:

a content recognition module for performing multimedia content recognition on the streaming media content to determine one or more speakers in the recorded video meeting;

a content editing module for segmenting the streaming media content into a plurality of media clips based on which of the one or more speakers is speaking in the recorded video meeting; and

a content selection module for selecting a media clip from the plurality of media clips based on the plurality of user defined criteria ~~as the portion of the monitored streaming content~~, the plurality of user defined criteria comprising a time period when the

participant speaker is the one or more speakers speaking in the
recorded video meeting;

the content indexing module indexing the plurality of media clips by the one
or more speakers in the recorded video meeting;

the output module constructing a storable media clip representation for the
selected media clip; and

the print engine generating a printout of the storable media clip representation.

98. (Currently Amended) The computer program product of claim 97 ~~96~~, wherein
the user interface module receives a user input indicating a location of the participant
speaker;
the content editing module segments the streaming media content into the plurality of
media clips based on locations associated with the one or more speakers in the
recorded video meeting; and
the content selection module selects the media clip illustrating a time period when the
location associated with the one or more speakers in the recorded video
meeting is the location of the participant speaker.

99. (Previously Presented) The computer program product of claim 96, further
comprising computer program code embodied therein for:
receiving a document in a print job;
extracting a Uniform Resource Locator from the document;
retrieving a content web page identified by the Uniform Resource Locator referenced
in the document;
constructing a printable web content representation of the retrieved content web page;

- associating the printable web content representation with a thumbnail image; and
displaying the associated thumbnail image in an embedded printer display of the
printer; and
responsive to the associated thumbnail image being selected, making the web content
printable representation available for printing to a selected printable medium.
100. (Previously Presented) The computer program product of claim 99, further
comprising computer program code for:
determining that the document in the print job is removed from an output tray of the
printer;
estimating a number of sheets removed from the output tray based on a change in a
weight of sheets in the output holder;
identifying the removed document based on the estimated number of sheets removed
from the output tray; and
highlighting the thumbnail image associated with the printable web content
representation of the content web page referenced in the removed document.
101. (Previously Presented) The computer program product of claim 99, further
comprising computer program code for:
setting a timeout window for removing the document in the print job from an output
tray of the printer;
responsive to the timeout window lapsing, removing the thumbnail image associated
with the document from the embedded printer display.